

FEB 1 3 25

TECH UENIER 1600/2900



1646



RAW SEQUENCE LISTING DATE PATENT APPLICATION: US/09/525,998A TI

DATE: 02/04/2002 TIME: 11:33:32

```
Input Set : A:\98385Eseq.txt
                Output Set: N:\CRF3\02042002\I525998A.raw
 3 <110> APPLICANT: Hauptmann, Rudolph
        Himmler, Adolph
         Maurer-Fogy, Ingrid
         Stratowa, Christian
 R <1205 TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAs Coding for
         Them
11 <1300 FILE REFERENCE: 98-385-E
13 <140 - CURPENT APPLICATION NUMBER: (9/525,398A
14 K141 - CURFENT FILING DATE: 2000-03-15
16 <150 · PFIOR APPLICATION NUMBER: 08/383,676
17 <151 PRIOR FILING DATE: 1995-02-01
                                                                ENTERED
19 -150 PRIOR APPLICATION NUMBER: 08/153,287
20 + 151 > PRIOR FILING DATE: 1993-11-17
32 -150 PRIOR APPLICATION NUMBER: 07/821,750
03 - 191 PRIOR FILING DATE: 1993-01-02
25 - 150 - PRIOR APPLICATION NUMBER: 07/511,430
26 1919 PRIOR FILING DATE: 1990-04-20
28 - 160 NUMBER OF SEQ ID NOS: 97
30 -1170: SOFTWARE: PatentIn Ver. 2.0
32 - 210 - SEQ ID NO: 1
33 .211 + LENGTH: 1368
34 -12121- TYPE: DNA
35 - 313 - OFGANISM: Homo sapiens
37 -1020: FEATURE:
38 + 221 - NAME/KEY: CDS
39 + 322 + \text{LOCATION}: (1)..(1365)
41 - 2200 FEATURE:
42 - 221 - NAME/KEY: sig_peptide
43 - 1222 - LOCATION: (1)..(87)
45 -1220 - FEATURE:
46 HB21 - NAME/KEY: misc_feature
47 HDDD - LOCATION: (88)..(120)
48 - 1223 - OTHER INFORMATION: portion of TNF-BP pro protein cleaved by
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51 -:220 - FEATURE:
57 - 321 - NAME/KEY: misc_feature
53 .322 - LOCATION: (606)..(633)
54 - 223 - OTHER INFORMATION: portion of TNF-BP pro protein cleaved by
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ι, α,
57 - 3400 \rightarrow \text{SEQUENCE: } 1
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50 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu

48

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					gga Gly												SIF.
54				20					25					30			
					agg												144
າ/ 6∺	nis	heu	35	Азр	Arg	GIU	Бу́Ѕ	40	ABP	261	Vall	CYS	45	1115,	13 k. /	ny s	
					caa												192
	Tyr		His	Pro	Gln	Asn	Asn 55	Seri	Ile	СУЗ	Cys	Thr	Буз	СУЗ	His	Lys	
72 74	gra	50 acc	tad	tta	tac	aat		tut	сса	वप्ट	aag		cag	gat.	acg	gad	240
				,	Tyr	Asn	-				Pro					Asp	
7 r.	6.5		~ .	+ ~+	~ . ~	70	~~~	+ ~ ~	++~	2 00 10	75 ~~**	+.~.	.a. v a	2.2.2		80 ata	288
					gag Glu												2411
30	2,5	,			85		2			9.)					95		
					aqc												336
- 호크 - 원4	Arg	Hıs	Суз	160 160	Ser	Cys	Ser	Lys	105	Arq	Lys	(5±1)	Met	110	Gin	val	
	gāg	ato	tot	_	tgc	aca	gtg	gac		gac	add	gtg	tgt		Ege	agg	384
87	Glu	Ile	ser	ser	Cys	Thr	Vāl		Arg	Asp	Thr	Val		Gly	Cys	Arg	
33 0.0			115	+	~~~	~ > +	+ - +	130	200	~ ~ ~	222	a++	125	ana	+42	++->	4.32
					egg Arg												4.72
92	_,_	130		-1-	,		135					140			-		
					tgc												489
	Asn 145	Cys	Ser	Leu	Cys	Leu 150	Asn	GIY	Thr	val	ніs 155	Leu	ser	Cys	GLD	160	
		cag	aac	acc	gtg		acc	tạc	cat.	gca		tto	ttt	cta	aga		528
		Gln	Asn	Thr	Val		Thr	Cys	His			Phe	Phe	Leu			
100		יביה י	r tai	t ata	165		aart	. 330	· tat	170		a arr	a ato	r arə	17! r tad	c acg	576
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104				180					185					190	-		
																tca Ser	634
108	_	s he	19: 19:		1 PIC	911.	ı ıre	200		vai	. шуз	, GI	205		ı nə	2 301	
																e ott	672
				r Val	L Leu	Leu			ı Val	Ile	Phe	Phe 220		y Let	л СУ	s Leu	
112		21) a tc		a ata	ttc	att	215 aqt		atq	tat	. cqc			a cq	q tq	g aag	720
115	5 Lei	ı Se	r Lei	u Leu	ı Phe	Il∈	e Ğİy	Leu	ı Met	Туг	Arg	y Ty	r Glr	ı Ar	g Tri	D Lys	
	5 225					230					235					240	7.50
																a gag s Glu	768
130		. ny	יטים כ	a rys	245				,y	250		. 111		. 01.	25'		
12.	2 ggg															a agc	815
1.7 1.7		y Gl	u Lei	u Glu 260		Thr	Thr	Thr	Lys 265) Leu	ı Ala	a Pro	o Asi 27		o Ser	
		a a a	t aad			. वव	: ttc	acc			e ete	ा वव	a tito			c gtg	8 ñ 4
		,									_			_			

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127 128	Phe	ser	Pro 275	Thr	Pro	Gly	Phe	Thr 280	Pro	Thr	L∈·ıı	Gly	Phe 285	Ser	Pro	Val	
	aaa	agt	_	acc	ttc	acc	tida		tida	acc	tat	ach		gat	gac	tqt	912
						Thr											
131		290					295				•	3:)+-			•	•	
	age		ttt	aca	get	ada	cqc	aqa	qaq	qtq	gida	cca	ada	tat	cag	ggg	9£0
						Pro											
1 :						310					3:5			-		320	
136	act	gae	300	ato	ctt	geg	aca	gaa	ctc	gcc	tide	ga:	900	atc	20.3	aac	1008
						Ala											
14%					325					330					335		
14.	700	ott	cag	aag	tgg	gag	gad	ago	ges	cac	aag	ССа	cag	age	cta	gac	1956
143	$F^{\ast}\Gamma(\mathbb{D})$	Leu	Glr.	Lys	Trp	Glu	Asp	ser	Ala	His	$L\gamma s$	Pro	Gln	Ser	Leu	Asp	
144				340					345					350			
						асф											$1.1 \oplus 4$
147	Thr	Asr	Asr	$\operatorname{cr} \mathbf{q}$	Ala	Thr	Leu	Tyr	Ala	Val	Val	G1:	Asn	Val	Pro	Prc	
145			355					360					365				
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	Leu	-	Tr _F	$L\gamma s$	Glu	Phe		Arg	Arg	Leu	Gly		Ser	Asp	Hıs	Glu	
152		370					375					380					1
						ctq											1.00
		Asp	Arg	Leu	Glu	Leu	GIN	Asn	GIY	Arg		Гел	Arg	GTu	ьта		
156						390					395	~~~	~~~		~~~	400	1 1/10
						acc Thr											1148
160	туг	ser	мес	האת	405	1.111	T.T.F.	Arg	AIG	410	1111	PI	Arg	Arg	415	ALG	
	2.77	ata	asa	ata		gga	aa.a	ata	ata		a a a	a t a	a a a	cta		aac	1296
						Gly											1200
164	1111	шец	GIU	420	шеч	OLY	nrg	va i	425	nrg	пър	1100	1151	430	БСЗ	5.1	
	tac	eta	gag		atc	gag	gag	ara		tac	aac	ada	ada		ata	aaa	1344
						Glu											
168	-1-		435	[440		1	_		445				
170	aaa	qcq	ccc	aqt	ctt	ctc	aga	tga									1368
171	Pro	Ala	Pro	Ser	Leu	Leu	Arg										
172		450					455										
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176	-:212	l · LI	ENGT	H: 45	55												
177	<212	2 · T	YPE:	PRT													
						sap	piens	3									
		0 > SI	~														
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18.3	1				5					10				_	15	_	
	Glu	Leu	Leu		Glγ	Ile	Tyr	Pro		Gly	Val	Ile	Gly		Val	Prc.	
185				50	_		_	_	25	-		~	_	30		T	
	His	Leu	_	Asp	Arg	Glu	Lys	-	Asp	Ser	Val	СУS		GIn	GLY	PÀS	
188	т	т1 -	35	D	C1	7	7	40	т1 "	O	C	mb.v.	4.5	Circ	ui.~	Tuc	
	тут		nlS	Pro	GIN	Asn		ser	тте	cys	cys	7nr 60	гуѕ	cys	HIS	тув	
191	<i>~</i> 1	50 mby	П	T .~	m	X ~ ~	55 A cp	Crrc	Dro	C1	Dr.		Cln	λαν	Πhr	Acr.	
133	GTA	LUL	гуг	ьeu	гуг	Asn	ASP	Cys	P10	GTÅ	PIO	317	GTU	АБР	TIII	WPF.	

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194	65					70					75					80
11.6	Cys	Arg	Glu	Cys	Glu	ser	Gly	Ser	Phe	Thr	Ala	Ser	Glu	Asn	His	Leu
1' • 7					н 5					90					95	
$1\cdots$	Arg	His	Cys	Leu	Ser	Сув	Ser	Lys	Cys	Arg	Lys	Glu	Met	Gly	Gln	Vàl
200				100					105					110		
202	Glu	Ile		Ser	Cys	Thr	Val	Anp	Arg	Asp	Thr	Val		Gly	Cys	Arg
2003			115					1110					125			
205	Lys	Asn	Gln	Tyr	Aig	His	_	Trp	Se r	Glu	Asn		Phe	Gln	Sys	Ph∈
100		130					135					140				
		Сув	Ser	Leu	Dis		Asn	Gly	Thr	Val		Leu	Ser	СУС	Gln	
	145			_,		150	1	_			155	_,	1	_	_	160
	Lys	Gln	Asn	Thr		Cys	Thr	Cys	His		GLY	Phe	Phe	Leu		لما لما فا
2.1.2		2.2	_	** 7	165	~	-		-	175	r	3		21.	175	em to the
	Asn	GEU	Jys		ser	Cys	ser	Ann.		ωys	Ly's	ser	ьеч	Glu	Jys	Thr
215	T	T a v	7	180	7,10	.~1 s	Tl a	<i>~</i>	185	3700 1	Luc	~1	шhъ	190	A are	Car
217 218	ьys	цец	195	سادالذ	210	اللدا	rre	200	Aisn	Vall	ny.s	15 I T	205	Glu	Asp	261
	(2) 1 1 1	Thr		W . 1	Гын	וובי 1	Pro		37 . l	r 1	Dha	Dha		Leu	ave	· .ca1:
	13 L Y	210	TILL	V (1 1	⊔∈ч	ъ÷и	215	בייאם	V (1.1	1.1.0	FIIC	220	,3 T Å	ne a	- J. S	یا ∷ال
	Legi		Len	T.eu	Dhe	Tle		T. (211	Mest	ψvr	Δra		Gln	Arg	מינים	Lare
	21:5	- N - 1	IIC G	шсц	1.10	230	.5± ¥	111.11	TTC: C.	LYI	235	1 y 1	.5 1.11	ni a	пр	240
		Lvs	[.∈11	Tir	Ser		Val	Cvs	Glv	Lvs		Thr	Pro	Glu	Lys	_
217		<i></i>	200	-2-	245	2.2		-1-	1	250					255	
	Glv	Glu	Leu	Glu		Thr	Thr	Thr	Lys		Leu	Ala	Pro	Asn		Ser
230	.1			260					265					270		
232	Phe	Ser	Pro	Thr	Pro	Gly	Phe	Thr	Pro	Thr	Leu	Gly	Phe	Ser	Pro	Vāl
233			275					280					285			
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236		290					295					300				
238	Pro	Asn	Phe	Ala	Ala	Pro	Arg	Arg	Glu	Val	Ala	Pro	Pro	Tyr	Gln	Gly
239	305					310					315					320
	Ala	Asp	Pro	Ile		Ala	Thr	Ala	Leu		Ser	Asp	Pro	Ile		Asrı
242	_	_		_	325			_		330	_	_		_	335	_
	Pro	Leu	Gln		Trp	Glu	Asp	Ser		Hıs	Lys	Pro	GIn	Ser	Leu	Asp
245	ml	\ ~ =	\ ~ ~	340	7] -	m /	T a.v.	m	345	17-1	170.3		7 0 5	350	220	Drin
248	LILL	Asp	355	Pro	A.I.a	THI	ьeu	360	Ата	val	vai	13 I I	365	Val	PIO	PIO
	Tenn	λκα		T ***C	clu	Dha	Val		λκα	T AU	Clv	Len		Asp	Hic	@1 p
251	בוי אב	370	пр	n' e	GLU	FIIC	375	Aīģ	AIG	ыe: u	.3 ± Å	380	261	лър	.11.5	3114
	Tle		Ara	T.e-11	Glu	Len		Asn	Glv	Ara	Cvs		Ara	Glu	Ala	Gln
254	385	IID į.		L.,. (4	314	390	0111	110.1	011	*** =	395		*** 9	011		400
256		Ser	Met	Leu	Ala		grT	Arq	Ara	Arq		Pro	Ara	Arg	Glu	
257					405		F)	410				•	415	
	Thr	Leu	Glu	Leu		Gly	Arg	Val	Leu		Asp	Met	Asp	Leu		Gly
260				420		-	-		425	-	-		-	430		-
161	Cys	Leu	Glu	Asp	Ile	Glu	Glu	Ala	Leu	Cys	Gly	Pro	Ala	Ala	Leu	Pro
363			435					440					445			
265	Pro	Ala	Pro	Ser	Leu	Leu	Arg									
266		450					455									

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270 CHIEF LENGTH: 483
271 KARLES TYPE: DNA
172 Kullo ORGANISM: Homo sapiens
274 <220> FEATURE:
175 <121> NAME/KEY: CDS
276 CLUPS LOCATION: (1)..(483)
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780 App Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser
                                         -1.0
\pm 83 and tgc tgt acc mag tgc cac mum aga acc the ttg the mat gad tgt
184 Ilw Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys
                200
                                     1.5
287 cou age cog gag cag gat aeg gae tye agg gag tgt gag age gge tee
                                                                        1.44
288 Pro Gly Pro Gly Glr Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser
            35
                                 40
                                                                        192
201 the acc get toa gaa aac cac che aga cac tge etc age tge too aaa
191 Pho Thr Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys
        50
293
                             55
295 tigo oga alag gala atg ggt dag gtg gag atd tot tot tigo ada gtg gad
                                                                        240
296 Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
297 65
299 egg gae ace gtg tgt gge tge agg aag aac eag tac egg cat tat tgg
                                                                        288
300 Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr Trp
                                          90
303 agt gaa aac cht the dag tgo the aat tgo ago che tgo che aat ggg
                                                                        336
304 Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu Asn Gly
305
               100
                                     105
                                                                        384
307 add gtg cad dtd tod tgo dag gag aaa dag aad add gtg tgo add tgd
308 Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val Cys Thr Cys
           115
                                120
311 dat goa ggt the tit dta aga gaa aac gag tgt gtd tod tgt agt aac
                                                                        432
312 His Ala Gly Phe Phe Leu Arg Glu Ash Glu Cys Val Ser Cys Ser Ash
      1.30
                            135
                                                 140
315 tot aag aaa ago otg gag tgo aog aag ttg tgo ota ooc cag att gag
                                                                        480
316 Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu
317 145
                        150
319 aat
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320 Asn
323 -: 210> SEQ ID NO: 4
324 <211> LENGTH: 161
325 + 212 > TYPE: PRT
326 ×213> ORGANISM: Homo sapiens
328 - 400 > SEQUENCE: 4
3.0) Asp Ser Val Cys Pro-Gln Gly Lys Tyr Ile His Pro-Gln Asn Asn Ser
330 1
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332 Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys
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VERIFICATION SUMMARY

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L:1643	M: 341	W:	(45)	" n "	$\cdot \mathbb{D} \cdot \Gamma$	"Xaa"	used,	$f \circ r$	SEQ	ID#:23
L:1686	M:341	W :	(45)	" n "	zr	"Xaa"	used,	$f\!\in\! r$	SEQ	ID#::3
L:2019	M:341	W:	(46)	" n "	r	"Xaa"	used,	$f \circ r$	SEQ	ID#:28
L:2039	M:341	W:	(45)	" n "	\circ r	"Xaa"	used,	$f \odot r$	SEQ	ID#:29
L:33345	M: 341	W :	(45)	"n"	$\mathbb{D}\mathbf{r}$	"Xaa"	used,	for	SEQ	ID#: 32
L::351	M:341	W:	(45)	" n "	$\circ r$	"Xaa"	used,	$f\circ r$	SEÇ	ID#:35
L:3446	M:341	W:	(45)	" n "	$\circ r$	"Xaa"	used,	$f \circ r$	SEQ	ID#:41
L:24.7	M:341	W:	(45)	" n "	$\circ r$	"Xaa"	used,	$f \odot r$	SE⊋	ID#:43
L:3470	M: 341	W:	(45)	" n "	$\circ r$	"Xaa"	used,	$f \circ r$	SEQ	ID#:43
L:2489	M: 341	W:	(45)	" n "	$\circ r$	"Xaa"	used,	for	SEÇ	ID#:44
$L:\mathbb{R}4 \ni \mathbb{R}$	M:341	W:	(46)	" n "	$\circ r$	"Xaa"	us⊖d,	$f \! \circ \! r$	SEQ	ID#:44
L:2525	M:341	W:	(45)	" n "	or	"Xaa"	used,	$f \circ r$	SEQ	ID#:46